BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.7

Agency	**Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054**

WORKSLIP AND EIRL RATE ANALYSIS 3

Estimate Amount:-	**68706949.340**
Approved Amount	**70075262.090**
Name of Contractor:-	**Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054**
Tender premium:-	**+1.99% (Above)**

Sl No	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW @ 8%	Total Rate	Add T.P (+)1.99 %	Final Rate.	Tender Rate	Consider minimum Rate
1	Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specification	cum	Pg No.5 of KPWD S.R 2016-17	2.4	283.00	-	283.00	22.64	305.64	6.08	311.72	305.64	305.64
4	Filling available excavated earth (excluding rock) insides of foundations upto plinth in layers not exceeding 20cms. In depth, compacting each deposited layer by ramming after watering with a lead upto 50m. And lift upto 1.5m including cost of all labour complete as per specifications.	cum	Pg No.6 of KPWD S.R 2016-17	2.10	127.00	-	127.00	10.16	137.16	2.73	139.89	137.16	137.16
6	Providing and filling in foundation with granite / trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift complete as per specification.	cum	Pg No.6 of KPWD S.R 2016-17	2.15	2114.00	-	2114.00	169.12	2283.12	45.43	2328.55	2283.12	2283.12

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7	Providing and laying in position Plain Cement Concrete of mix 1:3:6 with OPC cement @ 220kgs ,with 40mm and down size graded granite metal coarse aggregates @ 0 .892 cum and fine aggregates @ 0.465cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, in foundation including cost of all materials,labour, HOM of machinery ,curing complete as per specifications.	cum	Pg No.12 of KPWD S.R 2016-17	4.2	5046.00	-	5046.00	403.68	5449.68	108.45	5558.13	5449.68	5449.68
9	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as Walls at any thickness, incluidng attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specfiications	Sqm	Pg No.15 of KPWD S.R 2016-17	4.31	293.00	-	293.00	23.44	316.44	6.30	322.74	414.72	322.74
13	Providing TMT Steel Reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage	tonne	Pg No.17 of KPWD S.R 2016-17	4.46.2	60607.00	-	60607.00	4848.56	65455.56	1302.57	66758.13	76329	66758.13
16	Providing and constructing granite / trap / basalt Size Stone Masonry in foundation with cement mortar 1:6 stone hammered dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications	cum	Pg No.23 of KPWD S.R 2016-17	5.6	4187.00	-	4187.00	334.96	4521.96	89.99	4611.95	4359.96	4359.96

Sl No	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW @ 8%	Total Rate	Add T.P (+)1.99 %	Final Rate.	Tender Rate	Consider minimum Rate
27	Providing 12mm thick cement plaster in single coat with cement mortar 1:3 to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials,labour, curing complete as per specifications.Extra for providing and mixing waterproofing compound in cement plaster work at one kg per bag or in the proportion recommended by the manufacturers, for cement mortar 1:3 12mm thick cost of materials complete as per specifications.	SQm	Pg No.114 of KPWD S.R 2016-17	15.21	193.00	-	193.00	15.44	208.44	4.15	212.59	208.44	208.44
EIRL-8	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beams haunchings, cantilelver, girders, bressumers and lintels exceeding 1m in depth including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2	Sqm	Pg No.17 of KPWD S.R 2018-19	4.35	403.00	112.5	515.50	41.24	556.74	11.08	567.82	-	567.82
EIRL-9	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons for heights more than 3.50m from ground level. - 0 to 9 mtrs.Specification No. KBS 4.6.2	Sqm	Pg No.16 of KPWD S.R 2018-19	4.29.6	1170.00	-	1170.00	93.6	1263.60	25.15	1288.75	-	1288.75

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EIRL-11	Providing and constructing non load bearing wall with solid concrete blocks of size 400x100x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 (Ground Floor)	Sqm	Pg No.27 of KPWD S.R 2018-19	5.28	811.00	-	811.00	64.88	875.88	17.43	893.31	-	893.31
EIRL-12	KSRB 5-11 : Providing and constructing non load bearing wall with solid concrete blocks of size 400x100x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 (Second Floor)	Sqm	Pg No.27 of KPWD S.R 2018-19	5.28	811.00	70	881.00	70.48	951.48	18.93	970.41	-	970.41
EIRL-13	Providing rough cement plastering 15mm thick in single coat with cement mortar 1:4 to brick masonry for base of dadooing works with sand of approved quality, providing and removing scaffolding, inclding cost of materials, labour, curing complete as per specifications	Sqm	Pg No.117 of KPWD S.R 2018-19	15.30	205.00	-	205.00	16.4	221.40	4.41	225.81	-	225.81
EIRL-14	Providing rough cement plastering 15mm thick in single coat with cement mortar 1:4 to brick masonry for base of dadooing works with sand of approved quality, providing and removing scaffolding, inclding cost of materials, labour, curing complete as per specifications , Pg.No-117, Item No-15.30. (Second Floor)	Sqm	Pg No.117 of KPWD S.R 2018-19	15.30	205.00	12	217.00	17.36	234.36	4.66	239.02	-	239.02

Sl No	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW @ 8%	Total Rate	Add T.P (+)1.99 %	Final Rate.	Tender Rate	Consider minimum Rate
EIRL-15	Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approve design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications.Specification No. KBS 7.12 Pg No.34 Item No.7.9(Ground Floor)	kg	Pg No.34 of KPWD S.R 2018-19	7.9	95.00	0	95.00	7.6	102.60	2.04	104.64	-	104.64
EIRL-16	KSRB 7.9 : Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approve design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications.Specification No. KBS 7.12 Pg No.34 Item No.7.9(First Floor)	kg	Pg No.34 of KPWD S.R 2018-19	7.9	95.00	12	107.00	8.56	115.56	2.30	117.86	-	117.86
EIRL-17	Providing skirting, dado, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. Specification No.KBS 14.16, 14.17 - Colour glazed tiles 30x60 cms 6mm thick with border of size 30 x 10 cms. (Ground Floor)	Sqm	Pg No.108 of KPWD S.R 2018-19	14.41.2	1632.00	0	1632.00	130.56	1762.56	35.07	1797.63	-	1797.63

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EIRL-18	Providing skirting, dado, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. Specification No.KBS 14.16, 14.17 - Colour glazed tiles 30x60 cms 6mm thick with border of size 30 x 10 cms. (Second Floor)	Sqm	Pg No.108 of KPWD S.R 2018-19	14.41.2	1632.00	4	1636.00	130.88	1766.88	35.16	1802.04	-	1802.04
EIRL-19	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 15Cm(Item No 37.59.2 page no 271) Ground Floor	Sqm	Pg No.271 of KPWD S.R 2018-19	37.59.2	6670.00	0	6670.00	533.6	7203.60	143.35	7346.95	-	7346.95

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EIRL-20	KSRB M2200-6 Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. MORTH Specification NO.1600&2200Specification No. Pg No.229 Item No.28.8.2	Tonne	Pg No.229 of KPWD S.R 2018-19	28.8.2	61365.00	0	61365.00	4909.2	66274.20	1318.86	67593.06	-	67593.06
EIRL-21	KSRB 7.5 : Providing and fixing pull and push type rolling shutters of approved make out of 18 guage, 75mm wide cold rolled steel laths of convex corrugation, with side guides and bottom rail, with interlocking arrangements for steel laths by means of alternate clips, suspension shaft with High tension coil type springs two numbers, mounted on specially designed pipe shaft, with bracket plates, guide channels, ball bearing arrangements, for inside & outside locking with push & pull operations complete including pulling hooks, 4Nos. handles with all fittings and accessories, painted with a coat of red lead paint (without top cover) cost of materials, labour, HOM of machinery complete as per specifications. Shutter size 3mx2.8 m. Specification No. KBS 7.10 / 7.12. (P.No. 31, I.No. 7.5)	Sqm	Pg No.33 of KPWD S.R 2018-19	7.5	2607.00	0	2607.00	208.56	2815.56	56.03	2871.59	-	2871.59

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EIRL-22	Providing and fixing factory made Galvanized plain steel door frame of profile size 125x60 mm single rebate manufactured from galvanized plain steel sheet 1.25mm thick, confirming to IS:277. The door frame consists of hinge jamb, lock jamb, head and bottom tie bars, supply in knockdown condition & to be assembeled at site by mechanical means with special mitre joint. The bottom tie bar made out of galvanized plain steel sheet 1.60mm thick pressed angle 20 x 20mm screwed to the door frame. The stiffness of 3mm thick MS GATE & pre-trapped are to be welded inside the pre-punched alots of the door frames & 4 nos. of S.S.butt hinges 100 x 59 2.5mm to be screwed to the door frame. The stiffeners & mortor guards to be provided for fixing hardware fixtures. The door frame to be powder coated after pre-treatment of the surface. The door frame shall be filled with 1:3:6 cement concrete & to be fixed with adjustable lugs/hold fasts. Alternatively, dry fixing shall be permitted by using metallic expansion bolt. The rate is including transportation, loading, unloading, HOM etc. but excluding the hardware fixtures. Size 1000 x 2130 mm Pg no:313.Item no: 38.49.1	Rmt	Pg No.313 of KPWD S.R 2018-19	38.49.1	545.00	0	545.00	43.6	588.60	11.71	600.31	-	600.31

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EIRL-23	Providing and fixing factory made Galvanized plain steel door shutters 32mm thick manufactured from pre painted galvanized plain steel sheet 0.60mm thick confirming to the IS:14246. The door shutters consists of two outer skins if steel sheets , lock seam jointed at vertical stile edges, horizontal top and bottom sides to form a double skin fully flush shell. Rigid polyyurethane Foam (PUF) of density 40 kg/m3 shall be filled in the hollow portion of door shutters for structure rigidly & sound insulation. The necessary stiffeners of the Galvanized plain steel sheet of minimum thickness 1.60mm to be provided for fixing all hardware fixtures. The rate is including transportation, loading, unloading, HOM etc. but excluding the hardware fixtures. Size 900 x 2035 x 32 mm	Sqm	Pg No.314 of KPWD S.R 2018-19	38.50.1	545.00	0	545.00	43.6	588.60	11.71	600.31	-	600.31
EIRL-24	KSRB13-8.1 : Providing and fixing to wall, ceiling and floor, low density polyethylene pipes 6.00 kgf/sq.cm working pressure 20mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.15.1 / 13.9	m	Pg No.96of KPWD S.R 2018-19	13.70.7	545.00	0	545.00	43.6	588.60	11.71	600.31	-	600.31

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EIRL-25	Waterproofing of RCC Terrace / podium slab / toilet / utilities / water retaining structure by preparing the surface by chipping and cleaning and Grouting of Honey comb, voids,cracks / construction joints with cement slurry (1kg cement added in 10 ltr of water) added with 100gm of inorganic accelerator, followed by spraying of liquid biological modified alkaline earth silicates @ 0.40 ltr per sqm on whole surface to reduce the micro porosity and allowing it to dry, curing the surface for the silicates to penetrate deeper into the concrete and spraying waterproofing impregnate liquid containing silane and silanol linear copolymer @ 0.50 ltr per sqm and finally applying polymer slurry made out of cross linked acrylic / styrene / butadiene & cement in the ratio of 1:0.1, @0.50kg/sqm on the whole surface, including all labour charges tools and equipments, all complete as per the specification	Sqm	Pg No.69 of KPWD S.R 2018-19	10.5.1	526.00	0	526.00	42.08	568.08	11.30	579.38	-	579.38
EIRL-26	Providing and removing centering, shuttering, strutting, propping etc. and Removal of form Work for columns, pillars, piers, post and struts, square / rectangular / polygon in plan including cost of all materials, labour complete as per specificaiton. Specification No. KBS	Sqm	Pg No.16 of KPWD S.R 2018-19	4.32	456.00	190	646.00	51.68	697.68	13.88	711.56	-	711.56

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